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3 **GPS ANTENNA FOR SUBMARINE TOWED BUOY**

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5 **ABSTRACT OF THE DISCLOSURE**

6 An apparatus including a gimbal and an antenna with a
7 hollowed frustum having a closed end and an open end. The
8 antenna includes a feed stem at the closed end extending as an
9 internal rod into the hollowed frustum. The opposite end of the
10 rod connects to a receiver section extending from an edge of the
11 open end beyond a longitudinal axis of the antenna. The antenna
12 is supported by the gimbal attachable to a container suitable
13 for towing. A pivot at the open end in relation to the center-
14 of-gravity of the frustum allows a swinging arc in relation to
15 the attached gimbal in that the frustum moves by gravity toward
16 the axes of the gimbal such that the receiver section maintains
17 a facing position to the force of gravity.